

Title (en)
POWER CONVERTER

Title (de)
STROMRICHTER

Title (fr)
CONVERTISSEUR DE PUISSANCE

Publication
EP 3166218 B1 20211201 (EN)

Application
EP 15814830 A 20150603

Priority
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Abstract (en)
[origin: EP3166218A1] The present invention provides a power converter that is capable of preventing human errors and diagnosing the operation of a safety circuit easily and inexpensively. In the power converter that has a safety circuit that operates a drive circuit unit to run a main circuit unit based on an external command and stops the main circuit unit based on a shutoff signal in the event of a fault, the safety circuit 27 is configured of an input unit 21 that generates an input signal for running/stopping the main circuit unit 25, a logic unit 22 that receives the input signal as one of inputs, and a shutoff unit 23 that generates a shutoff signal based on an output signal from the logic unit 22. The power converter also has a diagnosis unit 26 that generates a shutoff command by using a feedback signal of the shutoff signal, the shutoff command being received as the other one of inputs by the logic unit, and a CPU 10 that, based on the input signal, the shutoff command, and the feedback signal, monitors the states of the safety circuit 27 and the diagnosis unit 26 to estimate the presence/absence of a fault and a fault section, and sends the shutoff signal to the drive circuit unit 24.

IPC 8 full level
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CPC (source: EP)
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Citation (examination)
EP 2733807 A2 20140521 - FUJI ELECTRIC CO LTD [JP]

Cited by
BE1028460B1; EP4156485A1; EP4094354A4; EP3809583A4; WO2022008590A1

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